

Amendment to the Claims:

The claims in this listing will replace all prior claims in the application.

Listing of Claims:

1. (Currently Amended) In a method of assembling a lamp including the step of sealing a lamp burner envelope to form a bulbous light emitting chamber and the step of coating at least a portion of the surface of the lamp burner envelope, the improvement wherein the step of coating the burner envelope is performed before the step of sealing the burner envelope.

2. (Original) The method of Claim 1 wherein the burner envelope when completed as a lamp burner includes elements which would be damaged by baking in an oxygen containing atmosphere at temperatures greater than a certain temperature, the method further comprising the step of baking the coated burner envelope in an oxygen containing atmosphere at a temperature greater than the certain temperature.

3. (Original) The method of Claim 2 where the baking temperature is greater than about 400° C.

4. (Original) The method of Claim 2 wherein the step of baking the coated burner envelope comprises the steps of baking the burner envelope at a first baking temperature for a first baking period followed by the step of raising the baking temperature and baking the burner envelope for another period of time.

5. (Original) The method of Claim 1 further comprising the step of baking the coated burner envelope in an essentially oxygen free atmosphere.

6. (Original) The method of Claim 1 wherein portions of the lamp burner envelope are coated with a material which will be damaged if exposed to temperatures above a certain temperature and wherein the sealing is performed by exposing one or more uncoated portions of the burner envelope to temperatures above the certain temperature, the method further comprising the step of preventing the exposure of the coated portions of the burner envelope adjacent the uncoated portions exposed to such temperatures from temperatures above the certain temperature.

7. (Original) The method of Claim 1 further comprising the step of aligning a filament in an IRR coated burner envelope including the step of determining the optimum position of the filament relative to the burner envelope by measuring the power applied to the filament to maintain a constant temperature of the filament.

8. (Original) The method of Claim 1 wherein the burner envelope is formed from one or more of the materials from the group consisting of glass, quartz glass, and ceramics.

9. (Original) The method of Claim 1 wherein the step of coating portions of the surface of the burner envelope includes the step of masking selected portions of the surface of the burner envelope so that the selected portions remain uncoated after the step of coating portions of the surface of the burner envelope.

10. (Currently Amended) The method of Claim 1 further comprising the step of cutting a generally tubular section of light transmitting material to form one or more lamp burner envelopes wherein the step of ~~cutting~~ coating is performed before the step of ~~coating~~ cutting the burner envelope.

11. (Currently Amended) A method of assembling a lamp comprising the ordered steps of:

- a. providing a burner envelope of light-transmitting material forming ~~[[an]]~~ a bulbous internal light emitting chamber;
- b. coating the exterior surface of the burner envelope;
- c. positioning one or more electrical leads so that each of the leads provides an electrical connection from internal of the light emitting chamber to external of the envelope; and
- d. sealing the burner envelope to hermetically seal the burner envelope to the leads to thereby seal the light emitting chamber.

12. (Currently Amended) In a method of making a lamp including the steps of (i) sealing a lamp burner envelope to hermetically seal the burner envelope to electrical leads to thereby seal a bulbous light emitting chamber and (ii) coating at least a portion of the surface of the lamp burner envelope, the step of baking the coated lamp burner envelope in an essentially oxygen free atmosphere.

13. (Currently Amended) In a method of making a lamp including the step of baking a coated lamp burner having a bulbous light emitting chamber wherein some of the elements of the lamp burner will be damaged if baked in an atmosphere containing a certain amount of oxygen at temperatures greater than a certain temperature, the step of baking the lamp burner including baking the lamp burner in an atmosphere containing less than the certain amount of oxygen at a temperature greater than the certain temperature.

14. (Original) The method of Claim 13 wherein the baking atmosphere comprises essentially nitrogen and/or argon.

15. (Original) The method of Claim 13 wherein the step of baking the lamp burner includes the steps of baking the lamp burner at a first baking temperature for a first period of time and then raising the bake temperature and baking the lamp burner for another period of time.

16. (Original) The method of Claim 15 wherein the step of raising the baking temperature and baking the lamp burner for a period of time is repeated one or more times.

17-29. (Cancelled)

30. (Currently Amended) In a method of depositing a layer of material on the exterior surface of a lamp burner envelope having a bulbous light emitting chamber which when completed as a lamp burner includes elements which would be damaged by baking at temperatures greater than a certain temperature, the steps of (a) depositing the layer of material and then (b) baking the burner envelope at temperatures greater than the certain temperature prior to completing the lamp burner to include said elements.

31. (Original) The method of Claim 30 wherein the certain temperature is about 400°C.

32. (Original) The method of Claim 30 wherein the certain temperature is about 600°C.

33. (Original) The method of Claim 30 wherein the certain temperature is about 1200°C.

34. (Original) The method of Claim 30 comprising the steps of baking the burner envelope at a first baking temperature for a first baking period followed by the step of raising the baking temperature and baking for another period of time.

35. (Original) The method of Claim 34 wherein the step of raising the baking temperature is repeated one of more times.

36. (Original) The method of Claim 30 wherein the material is deposited in a sputter deposition process and the burner envelope is baked to oxidize the deposited material to form an optical interference coating.

37. (Currently Amended) In a process of hermetically sealing a lamp burner envelope having a bulbous light emitting chamber and having portions coated with a material which will be damaged if exposed to temperatures greater than a certain temperature wherein the sealing is performed by exposing one or more uncoated portions of the burner envelope to temperatures greater than the certain temperature, the step of preventing the exposure of the coated portions of the burner envelope to temperatures greater than the certain temperature.

38. (Original) The process of Claim 37 wherein the step of preventing the exposure of the coated portions of the burner envelope includes the step of providing a heat reflective shield.

39. (Currently Amended) In a method of manufacturing an IRR coated lamp burner including the steps of (a) coating portions of the lamp burner envelope with a first coating which will be damaged if exposed to temperatures greater than a certain temperature and (b) sealing the envelope to form a bulbous light emitting chamber by exposing one or more uncoated end portions of the burner envelope to temperatures

greater than the certain temperature, the step of coating the first coated portions adjacent the uncoated portions to be exposed to temperatures greater than the certain temperature with a second coating which both (i) shields the first coating from exposure to temperatures greater than the certain temperature during the sealing process and (ii) reduces the loss of infrared radiation through the end portions during operation of the lamp.

40-44. (Cancelled)

45. (Original) In a method of providing a plurality of coated devices including the step of cutting a section to form the plurality of devices and the step of coating at least a portion of the surface of the devices, the improvement wherein the step of coating is performed before the step of cutting.

46. (Currently Amended) In a method of making a lamp burner including the step of cutting an integral plurality of lamp burner envelopes to form individual lamp burner envelopes each having a bulbous light emitting chamber and the step of coating at least a portion of the surface of the lamp burner envelopes, the improvement wherein the step of coating is performed before the step of cutting.

47. (Original) The method of Claim 46 wherein the integral plurality of lamp burner envelopes form a generally tubular section of light transmitting material .

48. (Original) The method of Claim 47 wherein the step of coating the burner envelopes includes the step of baking the coated integral burner envelopes.

49-61 (Withdrawn)

62. (New) The method of claim 1, wherein said bulbous light emitting chamber is substantially elliptical.

63. (New) A method of assembling a lamp comprising the ordered steps of:

- a. providing a burner envelope of light-transmitting material forming an internal light emitting chamber;
- b. coating the exterior surface of the burner envelope;
- c. positioning a filament within the coated burner envelope;
- d. positioning one or more electrical leads so that each of the leads provides an electrical connection from the filament internal of the light emitting chamber to external of the envelope;
- e. applying power to the filament via the electrical leads;
- f. repositioning the filament to a position requiring the lowest applied power to maintain the filament at a constant temperature; and
- e. sealing the burner envelope to hermetically seal the burner envelope to the leads to thereby seal the light emitting chamber and fix the position of the filament.

64. (New) In a process of hermetically sealing each tubular end portion of a double ended lamp burner envelope having a substantially elliptical bulbous light emitting chamber and having portions coated with an IR reflective material which will be damaged if exposed to temperatures greater than a certain temperature, wherein the chamber is sealed by pinch sealing each end portion during which pinch sealing process the end portions are exposed to temperatures greater than the certain temperature, the step of shielding portions of the IR reflective coating to thereby prevent exposure of the coated portions of the burner envelope to temperatures greater than the certain temperature.

65. (New) A method of making a lamp comprising the steps of:

coating a lamp burner envelope comprising as bulbous light emitting chamber and one or more end portions;

positioning one or more electrical leads in the end portion of the coated lamp burner envelope;

pinch sealing the end portion to thereby hermetically seal the end portion and fix the position of the electrical lead positioned therein while shielding the portion of the bulbous chamber adjacent the end portion to thereby prevent exposure of the coating thereon from temperatures that would damage the coating.